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Notice of Allowability	Application No.	Applicant(s)	
	10/605,983	BUFFET ET AL.	
	Examiner	Art Unit	
	Phallaka Kik	2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed on 11/12/2003 and interview conducted on 10/26/2005.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>20051026</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This Office Action responds to the Application filed on 11/12/2003 and interview conducted on 10/26/2005. Claims 1-20 are pending. Claims 1-20 have been examined and are allowed, wherein claims 1-2,4-20 are subjected to the following Examiner's Amendment.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Pamela Riley (Reg. No. 40,146) on 10/26/2005.

The application has been amended as follows:

In the claims:

As per **claim 1**, "said" (line 8) has been deleted.

As per **claim 2**, ", replacing" (line 2) has been deleted.

As per **claim 4**, "the angle" (line 2) has been replaced with --an angle--.

As per **claim 5**, "rings" (line 1) has been replaced with --ring lines--;
"the center" (line 2) has been replaced with --a center--.

As per **claim 6**, "the center" (line 1) has been replaced with --a center--;
"rings" (line 2) has been replaced with --ring lines--.

As per **claim 7**, "rings" (line 1) has been replaced with --ring lines--.

As per **claim 8**, "lines run" (line 2) has been replaced with --line segments runs--.

As per **claim 9**, "said" (line 8) has been deleted.

As per **claim 10**, ", replacing and calculating" (line 2) has been replaced with -- and determining--.

As per **claim 11**, "calculating" (line 2) has been replaced with --determining--.

As per **claim 12**, "the angle" (line 2) has been replaced with --an angle--.

As per **claim 13**, "rings" (line 1) has been replaced with --ring lines--;
"the center" (line 2) has been replaced with --a center--.

As per **claim 14**, "rings" (line 1) has been replaced with --ring lines--.

As per **claim 15**, "lines run" (line 2) has been replaced with --line segments runs--.

As per **claim 16**, "said" (line 8) has been deleted.

As per **claim 17**, "the angle" (line 2) has been replaced with --an angle--.

As per **claim 18**, "rings" (line 1) has been replaced with --ring lines--;
"the center" (line 2) has been replaced with --a center--.

As per **claim 19**, "rings" (line 1) has been replaced with --ring lines--.

As per **claim 20**, "lines run" (line 2) has been replaced with --line segments runs--.

Oath/Declaration

3. It is noted that although the Oath and Declaration filed on 11/12/2003, contains non-initialed and non-dated changes for the residence address of inventor Gustina B. Collins, the Application Data Sheet filed on 11/12/2003 correctly identified this address.

Accordingly, the defect of the Oath and Declaration filed on 11/12/2003 is overcome (see 37 CFR 1.76 (c)-(d)).

Drawings

4. The drawings filed on 11/12/2003 are acceptable subject to correction of the informalities indicated on the attached "Notice of Draftsperson's Patent Drawing Review," PTO-948. In order to avoid abandonment of this application, correction is required in reply to the Office action. The correction will not be held in abeyance.

Allowable Subject Matter

5. **Claims 1-20** are allowed.

6. The following is an examiner's statement of reasons for allowance:

As per **claims 1-20**, the independent claims 1,9,16, from which the respective claims depend, recite the method of determining inductance of wires in an electronic design, comprising at least the inventive steps/processes of adding concentric ring lines, adding straight line segments, and calculating/determining a mutual inductance, as claimed, which the prior arts made of record failed to teach or suggest. In particular, the prior arts made of record teach various methods/systems of calculating/modeling inductance, including using concentric ring structures (see especially **Luo et al.**, "Modelling of multiple coupled concentric open and closed microstrip ring structure", IEE Proceedings of Microwaves, Antennas and Propagation, Vol. 138, No. 6, December 1991, pp. 573-576, especially page 574; **Leduc et al.**, "Modeling of integrated circuit inductors with a coplanar ground plane using the PEEC method", 33rd European Microwave Conference, Vol. 1, 7-9 October 2003, pp. 447-450, especially section III;

Diestel, "A Quasi-TEM Analysis for Curved and Straight Planar Multiconductor Systems", IEEE Transactions on Microwave Theory and Techniques, Vol. 37, No. 4, April 1989, pp. 748-753, especially section II; **Chikamichi**, U.S. Patent Application Publication No. 2003/0125919, especially paragraphs [0016], [0090]-[0092]). However, none of the prior arts made of record, alone or in combination teach the inventive steps/processes as claimed. Accordingly, the claimed invention is novel and unobvious over the prior arts made of record.

Conclusion


7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

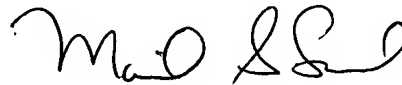
8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phallaka Kik whose telephone number is 571-272-1895. The examiner can normally be reached on Monday-Thursday, 8:30AM-7PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2825

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PK 
October 26, 2005



MATTHEW SMITH
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